

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-4. (Canceled)

5. (Currently Amended) A magnetic reproducing device comprising:

a signal detecting means for detecting a signal from a magnetic recording medium by a coil;

an amplifying means for amplifying the signal detected by said signal detecting means;

a filtering means for filtering the signal amplified by said amplifying means; and

a capacitor connected in parallel to the coil of said signal detecting means;

wherein the actual resonance frequency of a resonance circuit including said coil, said capacitor and a floating capacitance is set to be four to eight times the maximum reproduction frequency;

wherein said magnetic recording medium is a 3.5-inch micro floppy disk, and a control means is further provided for selectively switching the filtering characteristic of said filtering means in response to detection of a magnetic signal from the vicinity of the innermost portion of said 3.5-inch micro floppy disk by said detecting means, or in response to detection of a magnetic signal from the vicinity of the outermost portion of said disk; and

The magnetic reproducing device according to claim 4,

wherein said filtering means is switched to a Chebyshev characteristic filter by said control means when a magnetic signal has been detected from the vicinity of the innermost

portion of said 3.5-inch micro floppy disk, and said filtering means is switched to a Butterworth characteristic filter when a magnetic signal has been detected from the vicinity of the outermost portion of said disk.

6. (New) A magnetic memory device for reading and writing data from/to a disk-shaped magnetic recording medium having an inner portion and an outer portion, the magnetic memory device comprising:

a magnetic head, including a coil, for inductively detecting a signal from the magnetic recording medium;

an amplifier for amplifying the detected signal;

a characteristic filter for filtering the amplified signal, said characteristic filter configurable into one of a Chebyshev characteristic filter response configuration and a Butterworth characteristic filter response configuration,

wherein the configuration of the characteristic filter into one of the two filter response configurations adjusts resonant frequency of the magnetic memory device; and

a controller operating to configure the characteristic filter into one of the two filter response configurations corresponding to whether the magnetic head is detecting the signal from the inner portion or the outer portion of the disk-shaped magnetic recording medium.

7. (New) The magnetic memory device according to claim 6, wherein the controller configures the characteristic filter into the Chebyshev characteristic filter response configuration when the magnetic head is detecting the signal from the inner portion of the disk-shaped magnetic recording medium.

8. (New) The magnetic memory device according to claim 6, wherein the controller configures the characteristic filter into the Butterworth characteristic filter response configuration when the magnetic head is detecting the signal from the outer portion of the disk-shaped magnetic recording medium.

9. (New) The magnetic memory device according to claim 6, wherein said disk-shaped magnetic recording medium includes a 3.5-inch micro floppy disk.

10. (New) A method of reading data from a disk-shaped magnetic recording medium having an inner portion and an outer portion, the method comprising:

inductively detecting a signal from the magnetic recording medium within a high-frequency electromagnetic noise environment;

amplifying the detected signal; and

filtering the amplified signal by configuring a characteristic filter into one of a Chebyshev characteristic filter response configuration and a Butterworth characteristic filter response configuration corresponding to whether the signal is being detected from the inner portion or the outer portion of the disk-shaped magnetic recording medium.

11. (New) The method according to claim 10, wherein said filtering includes configuring the characteristic filter into the Chebyshev characteristic filter response configuration when the signal is being detected from the inner portion of the disk-shaped magnetic recording medium.

12. (New) The method according to claim 10, wherein said filtering includes configuring the characteristic filter into the Butterworth characteristic filter response configuration when the signal is being detected from the outer portion of the disk-shaped magnetic recording medium.